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Atty. Dkt. No. 041673-1001

## CORRECTED PAGE RESPONSIVE TO NOTICE OF NON-COMPLIANT **AMENDMENT**

## Amendments to the Claims:

Claims 1-69 and 73-76 were previously cancelled. Claims 70, 90 and 92 are currently being amended. This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

- 1-69 (Cancelled)
- 70. (Currently Amended) A method for increasing the efficiency of transduction of a gene into cardiac muscle to treat eardiac disease heart failure in a patient, wherein the gene comprises a mutated form of a phospholamban (PLB) gene, and the method comprises the step of administering a viral vector comprising the mutated PLB gene to the heart while the patient is in a state of hypothermia.
- 71. (Previously Presented) The method of claim 70, wherein the gene is administered in a viral gene expression vector.
- 72. (Previously Presented) The method of claim 70, wherein the viral gene expression vector further comprises a promoter suitable for use in cardiac muscle.
  - 73. 76. (Cancelled)
- 77. (Previously Presented) The method of claim 70, wherein the viral gene expression vector is an adeno-associated viral vector (AAV).
- 78. (Previously Presented) The method of claim 70, further comprising co-administering a sarcoplasmic reticulum CA2+ ATPase (SERCA-2) gene with the PLB gene to the cardiac muscle.

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- 79. (Previously Presented) The method of claim 70, wherein the PLB gene is a dominant negative PLB gene.
- 80. (Previously Presented) The method of claim 79, wherein the PLB gene comprises a mutation of E2A.
- 81. (Previously Presented) The method of claim 79, wherein the PLB gene comprises a mutation of R14E.
- 82. (Previously Presented) The method of claim 79, wherein the PLB gene comprises a mutation of S16N.
- 83. (Previously Presented) The method of claim 79, wherein the PLB gene comprises a mutation of S16E.
- 84. (Previously Presented) The method of claim 79, wherein the PLB gene comprises a mutation of V49A.
- 85. (Previously Presented) The method of claim 79, wherein the PLB gene comprises a mutation of K3E and R14E.
- 86. (Previously Presented) The method of claim 79, wherein the mutated dominant negative phospholamban gene further enhances SERCA-2 activity in the cardiac muscle.
- 87. (Previously Presented) The method of claim 70, wherein the phospholamban gene is administered with a permeabilizing agent.
- 88. (Previously Presented) The method of claim 87, wherein the permeabilizing agent is histamine, substance P or serotonin.
- 89. (Previously Presented) The method of claim 70, wherein the cardiac muscle is in the heart of a human patient.

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- 90. (Currently Amended) The method of claim 88, wherein the patient is suffering from cardiac arrest or brachycardia with heart failure at the time that the gene is administered.
- 91. (Previously Presented) The method of claim 88, wherein the heart is isolated from systemic circulation at the time that the gene is administered.
- 92. (Currently Amended) A method for treating <u>heart failure</u> cardiac disease, the method comprising administering a gene encoding mutated phospholamban to the cardiac muscle, wherein the phospholamban mutation comprises S16E.
- 93. (Previously Presented) The method of claim 92, wherein practice of the method reduces the occurrence of cardiac interstitial fibrosis.
- 94. (Previously Presented) The method of claim 93, wherein practice of the method increases cardiac muscle contractility.
- 95. (Previously Presented) The method of claim 92, wherein the gene is administered via a viral expression vector.
- 96. (Previously Presented) The method of claim 95, wherein the viral expression vector is AAV.
- 97. (Previously Presented) The method of claim 95, wherein the viral expression vector is an adenoviral vector.